

Table H.--Engineering Index Properties

(Absence of an entry indicates that the data were not estimated.)

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
AgC:												
Allegheny-----	0-9	Loam	CL, CL-ML, ML	A-4	0	0	90-100	80-100	65-100	55-95	0-35	NP-10
	9-46	Silty clay loam, clay loam, silt loam	CL, ML, SC, SM	A-4, A-6	0	0	90-100	80-100	65-95	35-80	0-35	NP-15
	46-55	Silt loam, loam, sandy loam	CL, ML, SC, SM	A-1, A-2, A- 4, A-6	---	0-5	65-100	55-100	35-95	20-75	0-35	NP-15
AsA:												
Ashton-----	0-10	Silt loam	ML	A-4	0	0	95-100	90-100	75-100	60-95	0-35	NP-10
	10-48	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6, A-7	0	0	95-100	90-100	85-100	80-100	25-42	5-20
	48-65	Silt loam, loam, fine sandy loam	CL, CL-ML, ML, SM	A-4, A-6	---	0-5	90-100	85-100	65-95	40-90	0-40	NP-20
Melvin-----	---	---	---	---	---	---	---	---	---	---	---	---
BeC:												
Beech-----	0-9	Loam	CL, CL-ML, ML	A-4, A-6	0	0-5	65-95	60-90	55-85	45-80	20-35	4-10
	9-51	Channery loam, channery clay loam, very channery loam	CL, ML, SC	A-2, A-4, A-6	0	0-20	45-90	40-85	35-80	30-65	25-40	7-14
	51-65	Very channery loam, very channery silt loam, channery clay loam	CL, ML, SC	A-2, A-4, A-6	0	5-25	40-85	35-80	30-75	25-65	25-40	7-14
BeD:												
Beech-----	0-9	Loam	CL, CL-ML, ML	A-4, A-6	0	0-5	65-95	60-90	55-85	45-80	20-35	4-10
	9-51	Channery loam, channery clay loam, very channery loam	CL, ML, SC	A-2, A-4, A-6	0	0-20	45-90	40-85	35-80	30-65	25-40	7-14
	51-65	Very channery loam, very channery silt loam, channery clay loam	CL, ML, SC	A-6, A-2, A-4	0	5-25	40-85	35-80	30-75	25-65	25-40	7-14

Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
CtA: Cotaco-----	0-12	Loam	CL-ML, ML, SC-SM, SM	A-4	0	0-5	80-100	75-95	55-85	35-80	0-30	NP-7
	12-39	Gravelly sandy clay loam, clay loam, loam	CL, GC, SC, SM	A-1-b, A-2, A-4, A-6	0	0-10	60-100	50-95	40-90	20-80	0-35	NP-15
	39-65	Gravelly silt loam, clay loam, loam	CL, GC, SC, SM	A-1-b, A-2, A-4, A-6	0	0-10	60-100	50-95	40-90	20-80	0-35	NP-15
CtB: Cotaco-----	0-12	Loam	CL-ML, ML, SC-SM, SM	A-4	0	0-5	80-100	75-95	55-85	35-80	0-30	NP-7
	12-39	Gravelly sandy clay loam, clay loam, loam	CL, GC, SC, SM	A-1-b, A-2, A-4, A-6	0	0-10	60-100	50-95	40-90	20-80	0-35	NP-15
	39-65	Gravelly silt loam, clay loam, loam	CL, GC, SC, SM	A-1-b, A-2, A-4, A-6	0	0-10	60-100	50-95	40-90	20-80	0-35	NP-15
DgF: Dekalb-----	0-4	Sandy loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	0-6	10-30	50-90	45-80	40-75	20-55	10-32	NP-10
	4-33	Channery sandy loam, channery loam, very channery sandy loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	0	5-40	50-85	40-75	40-75	20-55	15-32	NP-9
	33-37	Unweathered bedrock			---	---	---	---	---	---	---	---
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
Gilpin-----	0-6	Silt loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	10-40	50-90	45-85	35-75	30-70	20-40	4-15
	6-22	Channery silt loam, channery loam, silty clay loam	CL, CL-ML, GC-GM, SC	A-2, A-4, A-5	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	22-26	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
DLE: Dekalb-----	0-4	Channery sandy loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	---	0-30	50-90	45-80	40-75	20-55	10-32	NP-10
	4-33	Channery sandy loam, channery loam, very channery sandy loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	---	5-40	50-85	40-80	40-75	20-55	15-32	NP-9
	33-37	Unweathered bedrock			---	---	---	---	---	---	---	---
Latham-----	0-4	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-5	85-100	75-100	70-100	65-90	20-35	5-12
	4-34	Silty clay, silty clay loam, channery silty clay	CH, CL	A-7	---	0-10	85-100	70-95	65-95	60-90	45-65	25-40
	34-38	Weathered bedrock			---	---	---	---	---	---	---	---
Other Soils----	---	---	---	---	---	---	---	---	---	---	---	---
DPG: Dekalb-----	0-4	Sandy loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	6-20	15-30	50-90	45-80	40-75	20-55	10-32	NP-10
	4-33	Channery sandy loam, channery loam, very channery sandy loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	0	5-40	50-85	40-75	40-75	20-55	15-32	NP-9
	33-37	Unweathered bedrock			---	---	---	---	---	---	---	---
Pineville-----	0-5	Loam	CL-ML, ML, SC-SM, SM	A-2, A-4	---	15-30	55-90	50-85	45-80	30-75	25-35	4-10
	5-53	Channery loam, channery clay loam, very channery loam	CL, CL-ML, SC, SC-SM	A-2, A-4, A-6	---	0-10	55-85	50-80	45-75	30-65	25-40	6-15
	53-65	Very channery loam, very channery clay loam, very channery sandy loam	GC-GM, GM, SC, SC-SM	A-1, A-2, A-4, A-6	---	5-20	35-75	30-70	25-65	20-60	25-35	4-12

Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
DrE: Dormont-----	0-7	Silt loam	CL, ML	A-4, A-6	0	0	80-100	75-100	75-95	70-85	25-39	9-15
	7-23	Silt loam, silty clay loam	CL	A-4, A-6	0	0	80-100	75-95	75-90	70-85	25-39	9-15
	23-40	Channery silty clay loam, clay, silty clay	CH, CL, MH, ML	A-6, A-7	0	0	70-100	60-90	55-85	55-80	35-55	12-25
	40-54	Silt loam, channery silty clay loam, clay	CL, GM, MH, ML	A-2, A-4, A- 6, A-7	0	0-5	60-100	35-90	35-80	30-80	30-55	9-25
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
Latham-----	0-4	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-5	85-100	75-100	70-100	65-90	20-35	5-12
	4-34	Silty clay, silty clay loam, channery silty clay	CH, CL	A-7	---	0-10	85-100	70-95	65-95	60-90	45-65	25-40
	34-38	Weathered bedrock			---	---	---	---	---	---	---	---
FvF: Fiveblock-----	0-9	Sandy loam	GC-GM, GM, SC-SM, SM	A-1, A-2	---	15-30	55-70	50-65	35-50	10-25	15-25	NP-7
	9-65	Extremely channery sandy loam, very stony sandy loam, very channery sandy loam	GC-GM, GM, SC-SM, SM	A-1, A-2	---	5-30	45-65	25-50	15-35	10-20	15-25	NP-7
GuC: Gilpin-----	0-6	Silt loam	CL, CL-ML	A-4, A-6	---	0-5	80-95	75-90	70-85	65-80	20-40	4-15
	6-22	Channery loam, channery silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	22-26	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
Upshur-----	0-8	Silt loam	CL, CL-ML, ML	A-4, A-6	0	0	95-100	95-100	85-100	65-90	25-40	5-15
	8-40	Silty clay, clay	CH, CL, MH	A-7	0	0	95-100	95-100	90-100	85-100	45-70	20-40
	40-45	Silty clay loam, silty clay, clay	CH, CL, MH, ML	A-6, A-7	0	0	80-100	65-100	60-100	55-95	35-55	11-25
	45-49	Weathered bedrock			---	---	---	---	---	---	---	---
GuF: Gilpin-----	0-6	Silt loam	CL, CL-ML	A-4, A-6	---	0-5	80-95	75-90	70-85	65-80	20-40	4-15
	6-22	Channery loam, channery silt loam, silty clay loam	GC, SC, CL, CL-ML	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	22-26	Unweathered bedrock			---	---	---	---	---	---	---	---
Other Soils----	---	---	---	---	---	---	---	---	---	---	---	---
Upshur-----	0-8	Silt loam	CL, CL-ML, ML	A-4, A-6	0	0	95-100	95-100	85-100	65-90	25-40	5-15
	8-40	Silty clay, clay	CH, CL, MH	A-7	0	0	95-100	95-100	90-100	85-100	45-70	20-40
	40-45	Silty clay loam, silty clay, clay	CH, CL, MH, ML	A-6, A-7	0	0	80-100	65-100	60-100	55-95	35-55	11-25
	45-49	Weathered bedrock			---	---	---	---	---	---	---	---
Gw: Grigsby-----	0-7	Loam	CL, CL-ML, ML	A-4	---	0-5	80-100	80-100	70-100	50-80	0-25	NP-10
	7-42	Loam, fine sandy loam, silt loam	CL, ML, SC, SM	A-2, A-4	---	0-5	80-100	80-100	70-100	30-70	0-25	NP-10
	42-65	Fine sandy loam, loam, gravelly sandy loam	GC-GM, ML, SC-SM, SM	A-1, A-2, A-4	---	0-30	40-100	30-100	25-100	20-70	0-20	NP-5
Melvin-----	---	---	---	---	---	---	---	---	---	---	---	---
Gy: Guyan-----	0-10	Silt loam	CL-ML, ML	A-4	0	0	95-100	95-100	95-100	65-80	20-30	5-10
	10-65	Loam, clay loam, silty clay loam	CL, ML	A-4, A-6	0	0	85-100	85-100	80-100	70-95	25-40	8-17

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
Purdy-----	---	---	---	---	---	---	---	---	---	---	---	---
Hu:												
Huntington-----	0-17	Silt loam	CL, CL-ML, ML	A-4, A-6	0	0	95-100	95-100	85-100	60-95	25-40	5-15
	17-32	Silt loam, silty clay loam	CL, CL-ML, ML	A-4, A-6	0	0	95-100	95-100	85-100	60-95	25-40	5-15
	32-65	Stratified fine sand to silty clay loam	CL, ML, SC, SM	A-2, A-4	---	0-10	95-100	60-100	50-90	30-75	0-30	NP-10
Melvin-----	---	---	---	---	---	---	---	---	---	---	---	---
KaA:												
Kanawha-----	0-9	Loam	CL, CL-ML, ML	A-4	0	0	80-100	75-100	65-100	50-90	20-35	2-10
	9-40	Loam, sandy clay loam, clay loam	CL, ML, SC, SM	A-2, A-4, A-6	0	0	80-100	75-100	60-100	25-80	20-40	3-15
	40-65	Fine sandy loam, gravelly fine sandy loam, sandy clay loam	CL, ML, SC, SM	A-2, A-4, A-6	0	0	60-100	55-100	40-95	20-60	20-35	2-12
KaB:												
Kanawha-----	0-9	Loam	CL, CL-ML, ML	A-4	0	0	80-100	75-100	65-100	50-90	20-35	2-10
	9-40	Loam, sandy clay loam, clay loam	CL, ML, SC, SM	A-2, A-4, A-6	0	0	80-100	75-100	60-100	25-80	20-40	3-15
	40-65	Fine sandy loam, gravelly fine sandy loam, sandy clay loam	CL, ML, SC, SM	A-2, A-4, A-6	0	0	60-100	55-100	40-95	20-60	20-35	2-12
LgC:												
Latham-----	0-4	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-5	85-100	75-100	70-100	65-90	20-35	5-12
	4-34	Silty clay, silty clay loam, channery silty clay	CH, CL	A-7	---	0-10	85-100	70-95	65-95	60-90	45-65	25-40
	34-38	Weathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
Gilpin-----	0-6	Silt loam	CL, CL-ML	A-4, A-6	---	0-5	80-95	75-90	70-85	65-80	20-40	4-15
	6-22	Channery loam, channery silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	22-26	Unweathered bedrock			---	---	---	---	---	---	---	---
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
LgD:												
Latham-----	0-4	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-5	85-100	75-100	70-100	65-90	20-35	5-12
	4-34	Silty clay, silty clay loam, channery silty clay	CH, CL	A-7	---	0-10	85-100	70-95	65-95	60-90	45-65	25-40
	34-38	Weathered bedrock			---	---	---	---	---	---	---	---
Gilpin-----	0-6	Silt loam	CL, CL-ML	A-4, A-6	---	0-5	80-95	75-90	70-85	65-80	20-40	4-15
	6-22	Channery loam, channery silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	22-26	Unweathered bedrock			---	---	---	---	---	---	---	---
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
Lo:												
Lobdell-----	0-6	Loam	CL, CL-ML, ML	A-4	0	0	95-100	90-100	80-100	65-90	20-30	NP-8
	6-38	Loam, silt loam	ML	A-4	0	0	90-100	80-100	70-95	55-85	20-35	NP-10
	38-65	Stratified sandy loam to silt loam	CL, CL-ML, ML, SM	A-4	0	0	90-100	80-100	65-85	40-80	15-35	NP-10
Holly-----	---	---	---	---	---	---	---	---	---	---	---	---
MaB:												
Markland-----	0-8	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-90	25-35	5-15
	8-39	Silty clay, clay, silty clay loam	CH, CL	A-7	0	0	100	100	95-100	90-95	45-60	19-32
	39-65	Stratified silty clay loam to clay	CH, CL, MH, ML	A-7	0	0	100	100	90-100	75-95	40-55	15-25

Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
Buchanan-----	0-5	Loam	CL, CL-ML, GM, ML	A-2, A-4	6-20	5-20	50-85	45-70	40-70	30-60	20-35	2-11
	5-28	Gravelly loam, silt loam, gravelly sandy clay loam	CL, GM, ML, SM	A-2, A-4	0-3	0-20	50-100	45-90	40-90	20-80	20-35	2-15
	28-65	Gravelly loam, loam, channery clay loam	CL, GM, ML, SM	A-2, A-4, A-6	0-3	0-20	50-100	30-80	30-75	20-60	20-35	2-15
Ud: Udorthents-----	---	---	---	---	---	---	---	---	---	---	---	---
UsB: Urban Land-----	0-6	Loam			---	---	---	---	---	---	0-14	---
Ashton-----	0-10	Silt loam	ML	A-4	0	0	95-100	90-100	75-100	60-95	0-35	NP-10
	10-48	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6, A-7	0	0	95-100	90-100	85-100	80-100	25-42	5-20
	48-65	Silt loam, loam, fine sandy loam	CL, CL-ML, ML, SM	A-4, A-6	---	0-5	90-100	85-100	65-95	40-90	0-40	NP-20
Lindside-----	0-9	Silt loam	CL, CL-ML, ML	A-4, A-6	0	0	100	95-100	80-100	55-90	20-35	2-15
	9-37	Silty clay loam, silt loam, very fine sandy loam	CL, CL-ML, ML	A-4, A-6	0	0	100	95-100	90-100	70-95	25-40	4-18
	37-65	Stratified gravelly sandy loam to silty clay loam	CL, ML, SC, SM	A-2, A-4, A-6	0	0	60-100	55-100	45-100	30-95	20-40	4-18
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
Melvin-----	---	---	---	---	---	---	---	---	---	---	---	---
UtD: Urban Land-----	0-6	Loam			---	---	---	---	---	---	0-14	---

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Table H.--Engineering Index Properties--Continued

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